

**Notice of Allowability**

Application No.

09/823,886

Examiner

Russell Kallis

Applicant(s)

NEWELL ET AL.

Art Unit

1638

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 12/01/2005.
2. ☒ The allowed claim(s) is/are 7,38,49 (renumbered 1-3).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                   |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>2/28/2006</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment   |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance                                     |
|   | 9. <input type="checkbox"/> Other _____.  |

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with MaryDilys Anderson on 2/28/2006.

The application has been amended as follows:

In the claims:

Claim 7 (currently amended) A method for regulating photosynthetic fuel metabolism to accumulate fat in a plant, comprising[,]: contacting the plant with [a UCP] an uncoupling protein (UCP) inhibitor to decrease the activity of UCP in the plant cell wall or plasma membrane or chloroplast with respect to UCP activity levels prior to [decreasing the UCP activity,] contacting the plant with said UCP inhibitor, wherein the UCP inhibitor is a non-omega-3, -6 fatty acid, and [wherein the decrease in activity of UCP in the plant cell wall or plasma membrane or chloroplast regulates] photosynthetic fuel metabolism of the plant is regulated and the plant accumulates fat.

Claim 38 (currently amended) A method for producing a nutritionally enhanced plant, comprising: contacting the plant with a UCP inhibitor to decrease the activity of UCP in the plant cell wall or plasma membrane or chloroplast with respect to UCP activity levels prior to [decreasing the UCP activity,] contacting the plant with a UCP inhibitor, wherein the UCP

Art Unit: 1638

inhibitor is a non-omega-3, -6 fatty acid, [to produce] and a nutritionally enhanced plant is produced.

Claim 49 (currently amended) A method for [preventing an] increasing resistance to infection in a plant by increasing levels of free oxygen radicals, comprising: contacting the plant with a UCP inhibitor to decrease [the expression or] activity of UCP in the plant cell wall or plasma membrane or chloroplast with respect to UCP [expression or] activity levels prior to [decreasing the UCP expression or activity,] contacting the plant with said UCP inhibitor, [in an amount to prevent infection in the plant,] wherein the UCP inhibitor is a non-omega-3, -6 fatty acid and the levels of free oxygen radicals and resistance to infection are increased.

Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kallis whose telephone number is (571) 272-0798. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Russell Kallis Ph.D.  
March 3, 2006

**RUSSELL P. KALLIS, PH.D.**  
**PRIMARY EXAMINER**

*Russell Kallis*